

**FAG****61806-HLN** [↗](#)

Deep groove ball bearing

Deep groove ball bearing 618, single row,
steel sheet metal cage

Technical information



Your current product variant

Logistical code	HLN	-
Type of Seal	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	30 mm	Bore diameter
D	42 mm	Outside diameter
B	7 mm	Width
C _r	5.000 N	Basic dynamic load rating, radial
C _{0r}	3.650 N	Basic static load rating, radial
C _{ur}	215 N	Fatigue load limit, radial
n _G	24.100 1/min	Limiting speed
n _{gr}	11.200 1/min	Reference speed
≈m	0,025 kg	Weight



Mounting dimensions

$d_{a \min}$	32 mm	Minimum diameter shaft shoulder
$D_{a \max}$	40 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,3 mm	Maximum fillet radius

Dimensions

r_{\min}	0,3 mm	Minimum chamfer dimension
D_1	38,4 mm	Shoulder diameter outer ring
d_1	33,6 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

f_0	16,6	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed